

P#6



2121

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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/938,275

DATE: 03/04/2002
 TIME: 14:49:18

Input Set : A:\P03rSID.txt
 Output Set: N:\CRF3\03042002\I938275.raw

4 <110> APPLICANT: Gerardo Castillo
 5 Alan Snow
 7 <120> TITLE OF INVENTION: Therapeutic and Diagnostic Applications
 8 of Laminin and Laminin-Derived Protein Fragments
 11 <130> FILE REFERENCE: PROTEO.P03
 13 <140> CURRENT APPLICATION NUMBER: 09/938,275
 C--> 14 <141> CURRENT FILING DATE: 2001-08-16
 16 <160> NUMBER OF SEQ ID NOS: 11
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 11
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Mus Musculus
 25 <300> PUBLICATION INFORMATION:
 26 <308> DATABASE ACCESSION NO: Swissprot P19137
 27 <309> DATABASE ENTRY DATE: 1990-11-01
 29 <400> SEQUENCE: 1
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 31 1 5 10
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 177
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Mus Musculus
 39 <300> PUBLICATION INFORMATION:
 40 <308> DATABASE ACCESSION NO: Swissprot P19137
 41 <309> DATABASE ENTRY DATE: 1990-11-01
 43 <400> SEQUENCE: 2
 44 Leu Gln Val Gln Leu Ser Ile Arg Thr Phe Ala Ser Ser Gly Leu Ile
 45 1 5 10 15
 46 Tyr Tyr Val Ala His Gln Asn Gln Met Asp Tyr Ala Thr Leu Gln Leu
 47 20 25 30
 48 Gln Glu Gly Arg Leu His Phe Met Phe Asp Leu Gly Lys Gly Arg Thr
 49 35 40 45
 50 Lys Val Ser His Pro Ala Leu Leu Ser Asp Gly Lys Trp His Thr Val
 51 50 55 60
 52 Lys Thr Glu Tyr Ile Lys Arg Lys Ala Phe Met Thr Val Asp Gly Gln
 53 65 70 75 80
 54 Glu Ser Pro Ser Val Thr Val Val Gly Asn Ala Thr Thr Leu Asp Val
 55 85 90 95
 56 Glu Arg Lys Leu Tyr Leu Gly Gly Leu Pro Ser His Tyr Arg Ala Arg
 57 100 105 110
 58 Asn Ile Gly Thr Ile Thr His Ser Ile Pro Ala Cys Ile Gly Glu Ile
 59 115 120 125

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 MAR 18 2002
 Technology Center 2100

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Input Set : A:\P03rSID.txt
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60 Met Val Asn Gly Gln Gln Leu Asp Lys Asp Arg Pro Leu Ser Ala Ser
61 130 135 140
62 Ala Val Asp Arg Cys Tyr Val Val Ala Gln Glu Gly Thr Phe Phe Glu
63 145 150 155 160
64 Gly Ser Gly Tyr Ala Ala Leu Val Lys Glu Gly Tyr Lys Val Arg Leu
65 165 170 175
66 Asp
70 <210> SEQ ID NO: 3
71 <211> LENGTH: 177
72 <212> TYPE: PRT
73 <213> ORGANISM: Homo Sapiens
75 <300> PUBLICATION INFORMATION:
76 <308> DATABASE ACCESSION NO: Swissprot P25391
77 <309> DATABASE ENTRY DATE: 1992-05-01
79 <400> SEQUENCE: 3
80 Leu Ser Val Glu Leu Ser Ile Arg Thr Phe Ala Ser Ser Gly Leu Ile
81 1 5 10 15
82 Tyr Tyr Met Ala His Gln Asn Gln Ala Asp Tyr Ala Val Leu Gln Leu
83 20 25 30
84 His Gly Gly Arg Leu His Phe Met Phe Asp Leu Gly Lys Gly Arg Thr
85 35 40 45
86 Lys Val Ser His Pro Ala Leu Leu Ser Asp Gly Lys Trp His Thr Val
87 50 55 60
88 Lys Thr Asp Tyr Val Lys Arg Lys Gly Phe Ile Thr Val Asp Gly Arg
89 65 70 75 80
90 Glu Ser Pro Met Val Thr Val Val Gly Asp Gly Thr Met Leu Asp Val
91 85 90 95
92 Glu Gly Leu Phe Tyr Leu Gly Gly Leu Pro Ser Gln Tyr Gln Ala Arg
93 100 105 110
94 Lys Ile Gly Asn Ile Thr His Ser Ile Pro Ala Cys Ile Gly Asp Val
95 115 120 125
96 Thr Val Asn Ser Lys Gln Leu Asp Lys Asp Ser Pro Val Ser Ala Phe
97 130 135 140
98 Thr Val Asn Arg Cys Tyr Ala Val Ala Gln Glu Gly Thr Tyr Phe Asp
99 145 150 155 160
100 Gly Ser Gly Tyr Ala Ala Leu Val Lys Glu Gly Tyr Lys Val Gln Ser
101 165 170 175
102 Asp
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 3084
108 <212> TYPE: PRT
109 <213> ORGANISM: Mus Musculus
111 <300> PUBLICATION INFORMATION:
112 <308> DATABASE ACCESSION NO: Swissprot P19137
113 <309> DATABASE ENTRY DATE: 1990-11-01
115 <400> SEQUENCE: 4
116 Met Arg Gly Ser Gly Thr Gly Ala Ala Leu Leu Val Leu Leu Ala Ser
117 1 5 10 15
118 Val Leu Trp Val Thr Val Arg Ser Gln Gln Arg Gly Leu Phe Pro Ala

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119	20	25	30	
120	Ile Leu Asn Leu Ala Thr Asn Ala His Ile Ser Ala Asn Ala Thr Cys			
121	35	40	45	
122	Gly Glu Lys Gly Pro Glu Met Phe Cys Lys Leu Val Glu His Val Pro			
123	50	55	60	
124	Gly Arg Pro Val Arg His Ala Gln Cys Arg Val Cys Asp Gly Asn Ser			
125	65	70	75	80
126	Thr Asn Pro Arg Glu Arg His Pro Ile Ser His Ala Ile Asp Gly Thr			
127	85	90	95	
128	Asn Asn Trp Trp Gln Ser Pro Ser Ile Gln Asn Gly Arg Glu Tyr His			
129	100	105	110	
130	Trp Val Thr Val Thr Leu Asp Leu Arg Gln Val Phe Gln Val Ala Tyr			
131	115	120	125	
132	Ile Ile Ile Lys Ala Ala Asn Ala Pro Arg Pro Gly Asn Trp Ile Leu			
133	130	135	140	
134	Glu Arg Ser Val Asp Gly Val Lys Phe Lys Pro Trp Gln Tyr Tyr Ala			
135	145	150	155	160
136	Val Ser Asp Thr Glu Cys Leu Thr Arg Tyr Lys Ile Thr Pro Arg Arg			
137	165	170	175	
138	Gly Pro Pro Thr Tyr Arg Ala Asp Asn Glu Val Ile Cys Thr Ser Tyr			
139	180	185	190	
140	Tyr Ser Lys Leu Val Pro Leu Glu His Gly Glu Ile His Thr Ser Leu			
141	195	200	205	
142	Ile Asn Gly Arg Pro Ser Ala Asp Asp Pro Ser Pro Gln Leu Leu Glu			
143	210	215	220	
144	Phe Thr Ser Ala Arg Tyr Ile Arg Leu Arg Leu Gln Arg Ile Arg Thr			
145	225	230	235	240
146	Leu Asn Ala Asp Leu Met Thr Leu Ser His Arg Asp Leu Arg Asp Leu			
147	245	250	255	
148	Asp Pro Ile Val Thr Arg Arg Tyr Tyr Ser Ile Lys Asp Ile Ser			
149	260	265	270	
150	Val Gly Gly Met Cys Ile Cys Tyr Gly His Ala Ser Ser Cys Pro Trp			
151	275	280	285	
152	Asp Glu Glu Ala Lys Gln Leu Gln Cys Gln Cys Glu His Asn Thr Cys			
153	290	295	300	
154	Gly Glu Ser Cys Asp Arg Cys Cys Pro Gly Tyr His Gln Gln Pro Trp			
155	305	310	315	320
156	Arg Pro Gly Thr Ile Ser Ser Gly Asn Glu Cys Glu Glu Cys Asn Cys			
157	325	330	335	
158	His Asn Lys Ala Lys Asp Cys Tyr Tyr Asp Ser Ser Val Ala Lys Glu			
159	340	345	350	
160	Arg Arg Ser Leu Asn Thr Ala Gly Gln Tyr Ser Gly Gly Val Cys			
161	355	360	365	
162	Val Asn Cys Ser Gln Asn Thr Thr Gly Ile Asn Cys Glu Thr Cys Ile			
163	370	375	380	
164	Asp Gln Tyr Tyr Arg Pro His Lys Val Ser Pro Tyr Asp Asp His Pro			
165	385	390	395	400
166	Cys Arg Pro Cys Asn Cys Asp Pro Val Gly Ser Leu Ser Ser Val Cys			
167	405	410	415	

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168 Ile Lys Asp Asp Arg His Ala Asp Leu Ala Asn Gly Lys Trp Pro Gly
 169 420 425 430
 170 Gln Cys Pro Cys Arg Lys Gly Tyr Ala Gly Asp Lys Cys Asp Arg Cys
 171 435 440 445
 172 Gln Phe Gly Tyr Arg Gly Phe Pro Asn Cys Ile Pro Cys Asp Cys Arg
 173 450 455 460
 174 Thr Val Gly Ser Leu Asn Glu Asp Pro Cys Ile Glu Pro Cys Leu Cys
 175 465 470 475 480
 176 Lys Lys Asn Val Glu Gly Lys Asn Cys Asp Arg Cys Lys Pro Gly Phe
 177 485 490 495
 178 Tyr Asn Leu Lys Glu Arg Asn Pro Glu Gly Cys Ser Glu Cys Phe Cys
 179 500 505 510
 180 Phe Gly Val Ser Gly Val Cys Asp Ser Leu Thr Trp Ser Ile Ser Gln
 181 515 520 525
 182 Val Thr Asn Met Ser Gly Trp Leu Val Thr Asp Leu Met Ser Thr Asn
 183 530 535 540
 184 Lys Ile Arg Ser Gln Gln Asp Val Leu Gly Gly His Arg Gln Ile Ser
 185 545 550 555 560
 186 Ile Asn Asn Thr Ala Val Met Gln Arg Leu Thr Ser Thr Tyr Tyr Trp
 187 565 570 575
 188 Ala Ala Pro Glu Ala Tyr Leu Gly Asn Lys Leu Thr Ala Phe Gly Gly
 189 580 585 590
 190 Phe Leu Lys Tyr Thr Val Ser Tyr Asp Ile Pro Val Glu Thr Val Asp
 191 595 600 605
 192 Ser Asp Leu Met Ser His Ala Asp Ile Ile Ile Lys Gly Asn Gly Leu
 193 610 615 620
 194 Thr Ile Ser Thr Arg Ala Glu Gly Leu Ser Leu Gln Pro Tyr Glu Glu
 195 625 630 635 640
 196 Tyr Phe Asn Val Val Arg Leu Val Pro Glu Asn Phe Arg Asp Phe Asn
 197 645 650 655
 198 Thr Arg Arg Glu Ile Asp Arg Asp Gln Leu Met Thr Val Leu Ala Asn
 199 660 665 670
 200 Val Thr His Leu Leu Ile Arg Ala Asn Tyr Asn Ser Ala Lys Met Ala
 201 675 680 685
 202 Leu Tyr Arg Leu Asp Ser Val Ser Leu Asp Ile Ala Ser Pro Asn Ala
 203 690 695 700
 204 Ile Asp Leu Ala Val Ala Asp Val Glu His Cys Glu Cys Pro Gln
 205 705 710 715 720
 206 Gly Tyr Thr Gly Thr Ser Cys Glu Ala Cys Leu Pro Gly Tyr Tyr Arg
 207 725 730 735
 208 Val Asp Gly Ile Leu Phe Gly Gly Ile Cys Gln Pro Cys Glu Cys His
 209 740 745 750
 210 Gly His Ala Ser Glu Cys Asp Ile His Gly Ile Cys Ser Val Cys Thr
 211 755 760 765
 212 His Asn Thr Thr Gly Asp His Cys Glu Gln Cys Leu Pro Gly Phe Tyr
 213 770 775 780
 214 Gly Thr Pro Ser Arg Gly Thr Pro Gly Asp Cys Gln Pro Cys Ala Cys
 215 785 790 795 800
 216 Pro Leu Ser Ile Asp Ser Asn Asn Phe Ser Pro Thr Cys His Leu Thr

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217	805	810	815															
218	Asp	Gly	Glu	Glu	Val	Val	Cys	Asp	Gln	Cys	Ala	Pro	Gly	Tyr	Ser	Gly		
219					820				825						830			
220	Ser	Trp	Cys	Glu	Arg	Cys	Ala	Asp	Gly	Tyr	Tyr	Gly	Asn	Pro	Thr	Val		
221									840					845				
222	Pro	Gly	Gly	Thr	Cys	Val	Pro	Cys	Asn	Cys	Ser	Gly	Asn	Val	Asp	Pro		
223									855					860				
224	Leu	Glu	Ala	Gly	His	Cys	Asp	Ser	Val	Thr	Gly	Glu	Cys	Leu	Lys	Cys		
225	865					870				875					880			
226	Leu	Trp	Asn	Thr	Asp	Gly	Ala	His	Cys	Glu	Arg	Cys	Ala	Asp	Gly	Phe		
227									885			890			895			
228	Tyr	Gly	Asp	Ala	Val	Thr	Ala	Lys	Asn	Cys	Arg	Ala	Cys	Asp	Cys	His		
229					900				905					910				
230	Glu	Asn	Gly	Ser	Leu	Ser	Gly	Val	Cys	His	Leu	Glu	Thr	Gly	Leu	Cys		
231					915				920					925				
232	Asp	Cys	Lys	Pro	His	Val	Thr	Gly	Gln	Gln	Cys	Asp	Gln	Cys	Leu	Ser		
233					930				935					940				
234	Gly	Tyr	Tyr	Gly	Leu	Asp	Thr	Gly	Leu	Gly	Cys	Val	Pro	Cys	Asn	Cys		
235	945					950				955					960			
236	Ser	Val	Glu	Gly	Ser	Val	Ser	Asp	Asn	Cys	Thr	Glu	Glu	Gly	Gln	Cys		
237						965				970					975			
238	His	Cys	Gly	Pro	Gly	Val	Ser	Gly	Lys	Gln	Cys	Asp	Arg	Cys	Ser	His		
239						980				985					990			
240	Gly	Phe	Tyr	Ala	Phe	Gln	Asp	Gly	Gly	Cys	Thr	Pro	Cys	Asp	Cys	Ala		
241					995				1000					1005				
242	His	Thr	Gln	Asn	Asn	Cys	Asp	Pro	Ala	Ser	Gly	Glu	Cys	Leu	Cys	Pro		
243					1010				1015					1020				
244	Pro	His	Thr	Gln	Gly	Leu	Lys	Cys	Glu	Glu	Cys	Glu	Glu	Ala	Tyr	Trp		
245					1025				1030					1035			1040	
246	Gly	Leu	Asp	Pro	Glu	Gln	Gly	Cys	Gln	Ala	Cys	Asn	Cys	Ser	Ala	Val		
247						1045				1050					1055			
248	Gly	Ser	Thr	Ser	Ala	Gln	Cys	Asp	Val	Leu	Ser	Gly	His	Cys	Pro	Cys		
249						1060				1065					1070			
250	Lys	Lys	Gly	Phe	Gly	Gly	Gln	Ser	Cys	His	Gln	Cys	Ser	Leu	Gly	Tyr		
251					1075				1080					1085				
252	Arg	Ser	Phe	Pro	Asp	Cys	Val	Pro	Cys	Gly	Cys	Asp	Leu	Arg	Gly	Thr		
253					1090				1095					1100				
254	Leu	Pro	Asp	Thr	Cys	Asp	Leu	Glu	Gln	Gly	Leu	Cys	Ser	Cys	Ser	Glu		
255					1105				1110					1115			1120	
256	Asp	Ser	Gly	Thr	Cys	Ser	Cys	Lys	Glu	Asn	Val	Val	Gly	Pro	Gln	Cys		
257						1125				1130					1135			
258	Ser	Lys	Cys	Gln	Ala	Gly	Thr	Phe	Ala	Leu	Arg	Gly	Asp	Asn	Pro	Gln		
259						1140				1145					1150			
260	Gly	Cys	Ser	Pro	Cys	Phe	Cys	Phe	Gly	Leu	Ser	Gln	Leu	Cys	Ser	Glu		
261						1155				1160					1165			
262	Leu	Glu	Gly	Tyr	Val	Arg	Thr	Leu	Ile	Thr	Leu	Ala	Ser	Asp	Gln	Pro		
263					1170				1175					1180				
264	Leu	Leu	His	Val	Val	Ser	Gln	Ser	Asn	Leu	Lys	Gly	Thr	Ile	Glu	Gly		
265					1185				1190					1195			1200	

VERIFICATION SUMMARY
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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date